

ABSTRACT

An apparatus for efficiently removing VOC from a plurality of remotely located sources of VOC contaminated gas streams includes a plurality of liquid absorbers, each located near and communicating with a source of a VOC contaminated gas stream, the liquid absorbers associating the VOC with a scrubbing liquid. A gas conduit is associated with each liquid absorber to allow for the recycling of properly conditioned gas to the VOC source. A conduit is connected to each liquid absorber for conveying VOC laden scrubbing liquid from the liquid absorber to a separating apparatus in fluid communication with each of the conduits. A conduit recycles the scrubbing liquid from the separating apparatus to at least one of the plurality of liquid absorbers. A heat exchanger associated with the scrubbing liquid after separation transfers heat to the scrubbing liquid prior to separation, or to an HVAC system, or to the scrubbing liquid prior to the liquid absorber. An energy efficient method for removing VOC from a plurality of remotely located sources of gas streams contaminated with VOC featuring recycling of gas and scrubbing fluid and heat transfer.

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